Creative Enzymes®

Nitrilase, Recombinant

Cat. No. NATE-0487

Lot. No. (See product label)

Introduction

Description	Nitrilase enzymes catalyse the hydrolysis of nitriles to carboxylic acids and ammonia, without the formation of "free" amide intermediates. Nitrilases are involved in natural product biosynthesis and post translational modifications in plants, animals, fungi and certain prokaryotes. Nitrilases can also be used as catalysts in preparative organic chemistry. Among others, nitrilases have been used for the resolution of racemic mixtures.
Synonyms	nitrilase; acetonitrilase; benzonitrilase; EC 3.5.5.1; 9024-90-2

Product Information

Source	E. coli
EC Number	EC 3.5.5.1
CAS No.	9024-90-2
Molecular Weight	mol wt 41 kDa
Activity	> 2.0 units/mg
Isoelectric point	8.1
Unit Definition	1 U corresponds to the amount of enzyme which liberates 1 µmol ammonia per minute at pH 7.2 and 25°C with the conversion of acrylonitrile to acrylic acid

Usage and Packaging

Package	Bottomless glass bottle. Contents are inside inserted fused cone.

Storage and Shipping Information

Storage	2-8°C